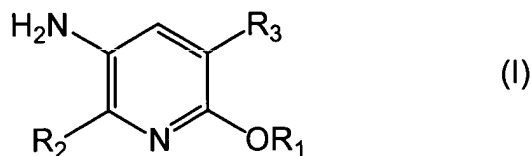


**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently amended) Ready-to-use composition for the oxidation dyeing of keratinous fibers, comprising, in a medium suitable for dyeing:

(a) at least one oxidation dye chosen from the pyridines of formula (I), and acid addition salts thereof:



wherein:

R<sub>1</sub> is chosen from a (C<sub>1</sub>-C<sub>4</sub>)alkyl group, a (C<sub>1</sub>-C<sub>4</sub>)monohydroxyalkyl group, and a (C<sub>2</sub>-C<sub>4</sub>)polyhydroxyalkyl group,

R<sub>2</sub> is chosen from a (C<sub>1</sub>-C<sub>4</sub>)alkoxy group, a (C<sub>1</sub>-C<sub>4</sub>)monohydroxyalkoxy group, a (C<sub>2</sub>-C<sub>4</sub>)polyhydroxyalkoxy group, an amino group, a mono(C<sub>1</sub>-C<sub>4</sub>)alkylamino group, a di-(C<sub>1</sub>-C<sub>4</sub>)alkylamino group, a monophenylamino group, a monohydroxyphenylamino group, a monoalkoxyphenylamino group, a monohydroxy(C<sub>1</sub>-C<sub>4</sub>)alkylamino group, a dihydroxy-(C<sub>1</sub>-C<sub>4</sub>)alkylamino group, a monohydroxy-(C<sub>2</sub>-C<sub>4</sub>)alkylamino group, a dihydroxy-(C<sub>2</sub>-C<sub>4</sub>)alkylamino group, a (C<sub>1</sub>-C<sub>4</sub>)alkylmonohydroxy-(C<sub>1</sub>-C<sub>4</sub>)alkylamino group and a (C<sub>1</sub>-C<sub>4</sub>)alkylpolyhydroxy(C<sub>2</sub>-C<sub>4</sub>)alkylamino group,

R<sub>3</sub> is chosen from a hydrogen atom, an amino group, a mono(C<sub>1</sub>-C<sub>4</sub>)alkylamino group, a monohydroxy(C<sub>1</sub>-C<sub>4</sub>)alkylamino group and a mono(polyhydroxy(C<sub>2</sub>-C<sub>4</sub>)alkyl)amino group;

provided that: when R<sub>2</sub> is chosen from a (C<sub>1</sub>-C<sub>4</sub>)alkoxy group, a (C<sub>1</sub>-C<sub>4</sub>)monohydroxyalkoxy group and a (C<sub>2</sub>-C<sub>4</sub>)polyhydroxyalkoxy group, then R<sub>3</sub> is a hydrogen atom; and

further provided that the at least one oxidation dye can be 2,6-dimethoxy-3,5-diaminopyridine; and

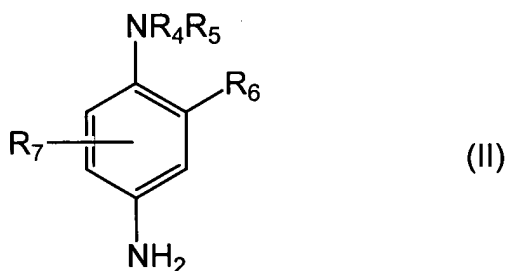
(b) at least one enzymatic oxidizing agent chosen from:

- (i) a system comprising at least one 2-electron oxidoreductase and its corresponding at least one donor,
- (ii) at least one 4-electron oxidoreductase, and
- (iii) at least one peroxidase.

2. (Original) A composition according to claim 1, wherein said at least one oxidation dye of formula (I) is chosen from: 2,6-dimethoxy-3,5-diaminopyridine, 2,3-diamino-6-methoxypyridine, 2-methylamino-3-amino-6-methoxypyridine, 2-(2'-hydroxyphenyl)amino-3-amino-6-methoxypyridine, 2-(4'-hydroxyphenyl)amino-3-amino-6-methoxypyridine, 2-(4'-methoxyphenyl)amino-3-amino-6-methoxypyridine, 2-phenylamino-3-amino-6-methoxypyridine, and acid addition salts thereof.

3. (Original) A composition according to claim 2, wherein said at least one oxidation dye of formula (I) is chosen from 2,6-dimethoxy-3,5-diaminopyridine and at least one acid addition salts thereof.

4. (Original) A composition according to claim 1, wherein said at least one oxidation dye of formula (I) is present in an amount ranging from 0.0001 to 10% by weight relative to the total weight of the dye composition.
5. (Original) A composition according to claim 4, wherein said at least one oxidation dye of formula (I) is present in an amount ranging from 0.005 to 5% by weight relative to the total weight of the dye composition.
6. (Original) A composition according to claim 1, further comprising at least one oxidation base.
7. (Original) A composition according to claim 6, wherein said at least one oxidation base is chosen from para-phenylenediamines, double bases, para-aminophenols, ortho-aminophenols and heterocyclic oxidation bases.
8. (Original) A composition according to Claim 7, wherein said para-phenylenediamines are chosen from the compounds of formula (II) and acid addition salts thereof:



wherein:

R<sub>4</sub> is chosen from a hydrogen atom, a (C<sub>1</sub>-C<sub>4</sub>)alkyl group optionally substituted with a nitrogenous group, a (C<sub>1</sub>-C<sub>4</sub>)monohydroxyalkyl group, a (C<sub>2</sub>-C<sub>4</sub>)polyhydroxyalkyl

group, a (C<sub>1</sub>-C<sub>4</sub>)alkoxy(C<sub>1</sub>-C<sub>4</sub>)alkyl group, a phenyl group and a 4'-aminophenyl group;

R<sub>5</sub> is chosen from a hydrogen atom, a C<sub>1</sub>-C<sub>4</sub> alkyl group optionally substituted with a nitrogenous group, a C<sub>1</sub>-C<sub>4</sub> monohydroxyalkyl group, a C<sub>2</sub>-C<sub>4</sub> polyhydroxyalkyl group, and a (C<sub>1</sub>-C<sub>4</sub>)alkoxy(C<sub>1</sub>-C<sub>4</sub>)alkyl group;

R<sub>6</sub> is chosen from a hydrogen atom, a halogen atom, a (C<sub>1</sub>-C<sub>4</sub>)alkyl group, a (C<sub>1</sub>-C<sub>4</sub>)monohydroxyalkyl group, a (C<sub>1</sub>-C<sub>4</sub>)hydroxyalkoxy group, an acetylamino(C<sub>1</sub>-C<sub>4</sub>)alkoxy group, a(C<sub>1</sub>-C<sub>4</sub>)mesylaminoalkoxy group and a carbamoylamino(C<sub>1</sub>-C<sub>4</sub>)alkoxy group,

R<sub>7</sub> is chosen from a hydrogen atom, a halogen atom and a C<sub>1</sub>-C<sub>4</sub> alkyl group.

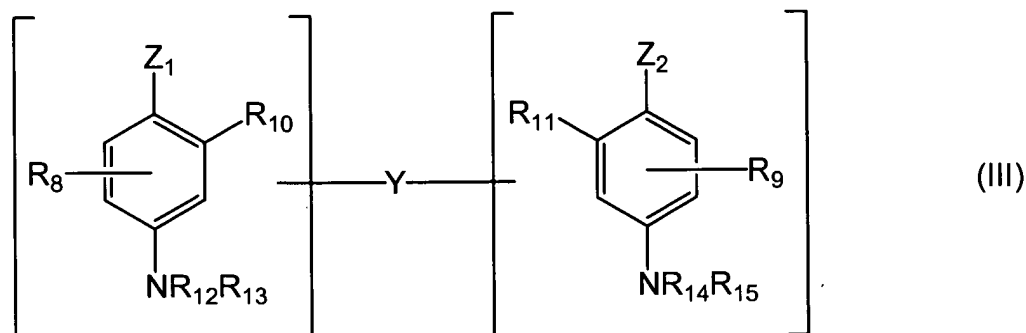
9. (Original) A composition according to Claim 8, wherein said nitrogenous groups are chosen from amino, mono(C<sub>1</sub>-C<sub>4</sub>)alkylamino, di(C<sub>1</sub>-C<sub>4</sub>)alkylamino, tri(C<sub>1</sub>-C<sub>4</sub>)alkylamino, monohydroxy(C<sub>1</sub>-C<sub>4</sub>)alkylamino, imidazolinium and ammonium groups.

10. (Original) A composition according to Claim 7, wherein said para-phenylenediamines of formula (II) are chosen from para-phenylenediamine, para-toluylenediamine, 2-chloro-para-phenylenediamine, 2,3-dimethyl-para-phenylenediamine, 2,6-dimethyl-para-phenylenediamine, 2,6-diethyl-para-phenylenediamine, 2,5-dimethyl-para-phenylenediamine, N,N-dimethyl-para-phenylenediamine, N,N-diethyl-para-phenylenediamine, N,N-dipropyl-para-phenylenediamine, 4-amino-N,N-diethyl-3-methylaniline, N,N-bis(β-hydroxyethyl)-para-phenylenediamine, 4-amino-N,N-bis(β-hydroxyethyl)-2-methylaniline, 4-amino-2-chloro-N,N-bis(β-hydroxyethyl)aniline, 2-β-hydroxyethyl-para-phenylenediamine, 2-fluoro-para-phenylenediamine, 2-isopropyl-para-phenylenediamine, N-(β-hydroxypropyl)-para-

phenylenediamine, 2-hydroxymethyl-para-phenylenediamine, N,N-dimethyl-3-methyl-para-phenylenediamine, N,N-(ethyl- $\beta$ -hydroxyethyl)-para-phenylenediamine, N-( $\beta$ , $\gamma$ -dihydroxypropyl)-para-phenylenediamine, N-(4'-aminophenyl)-para-phenylenediamine, N-phenyl-para-phenylenediamine, 2- $\beta$ -hydroxyethyloxy-para-phenylenediamine, 2- $\beta$ -acetylaminoethyloxy-para-phenylenediamine, N-( $\beta$ -methoxyethyl)-para-phenylenediamine, and acid addition salts thereof.

11. (Original) A composition according to Claim 10, wherein said para-phenylenediamines of formula (II) are chosen from para-phenylenediamine, para-toluylenediamine, 2-isopropyl-para-phenylenediamine, 2- $\beta$ -hydroxyethyl-para-phenylenediamine, 2- $\beta$ -hydroxyethyloxy-para-phenylenediamine, 2,6-dimethyl-para-phenylenediamine, 2,6-diethyl-para-phenylenediamine, 2,3-dimethyl-para-phenylenediamine, N,N-bis( $\beta$ -hydroxyethyl)-para-phenylenediamine, 2-chloro-para-phenylenediamine, 2- $\beta$ -acetylaminoethyloxy-para-phenylenediamine and acid addition salts thereof.

12. (Original) A composition according to Claim 7, wherein said double bases are chosen from compounds of formula (III) and acid addition salts thereof:



wherein:

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1300 I Street, NW  
Washington, DC 20005  
202.408.4000  
Fax 202.408.4400  
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a linker arm Y chosen from linear and branched alkylene groups comprising from 1 to 14 carbon atoms optionally substituted with at least one group chosen from hydroxyl and (C<sub>1</sub>-C<sub>6</sub>)alkoxy groups, wherein said linear and branched alkylene groups are optionally interrupted by or terminated by at least one group chosen from nitrogenous groups and heteroatoms chosen from oxygen, sulfur, and nitrogen atoms;

Z<sub>1</sub> and Z<sub>2</sub>, which are identical or different, are each chosen from a hydroxyl group and an amino group optionally substituted with a group chosen from a (C<sub>1</sub>-C<sub>4</sub>)alkyl group and said linker arm Y;

R<sub>8</sub> and R<sub>9</sub> which are identical or different, are each chosen from a hydrogen atom, a halogen atom, a (C<sub>1</sub>-C<sub>4</sub>)alkyl group, a (C<sub>1</sub>-C<sub>4</sub>)monohydroxyalkyl group, a (C<sub>2</sub>-C<sub>4</sub>)polyhydroxyalkyl group, a (C<sub>1</sub>-C<sub>4</sub>)aminoalkyl group and said linker arm Y;

R<sub>10</sub>, R<sub>11</sub>, R<sub>12</sub>, R<sub>13</sub>, R<sub>14</sub> and R<sub>15</sub>, which are identical or different, are each chosen from a hydrogen atom, said linker arm Y and a (C<sub>1</sub>-C<sub>4</sub>)alkyl group;

provided that: said compounds of formula (III) contain only one said linker arm Y per molecule.

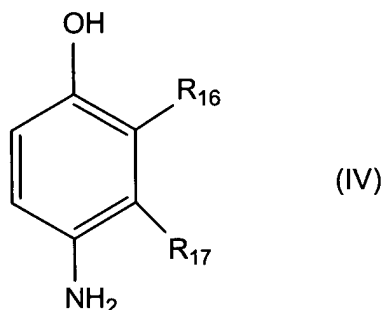
13. (Original) A composition according to Claim 12, wherein said nitrogenous groups are chosen from amino, mono(C<sub>1</sub>-C<sub>4</sub>)alkylamino, di(C<sub>1</sub>-C<sub>4</sub>)alkylamino, tri(C<sub>1</sub>-C<sub>4</sub>)-alkylamino, monohydroxy(C<sub>1</sub>-C<sub>4</sub>)alkylamino, imidazolinium and ammonium groups.

14. (Original) A composition according to Claim 12, wherein said double bases of formula (III) are chosen from N,N'-bis(β-hydroxyethyl)-N,N'-bis(4'-aminophenyl)-1,3-diaminopropanol, N,N'-bis(β-hydroxyethyl)-N,N'-bis(4'-aminophenyl)ethylenediamine,

N,N'-bis(4-aminophenyl)tetramethylenediamine, N,N'-bis( $\beta$ -hydroxyethyl)-N,N'-bis(4-aminophenyl)tetramethylenediamine, N,N'-bis(4-methylaminophenyl)-tetramethylenediamine, N,N'-bis(ethyl)-N,N'-bis(4'-amino-3'-methylphenyl)ethylenediamine, 1,8-bis(2,5-diaminophenoxy)-3,5-dioxaoctane, and addition salts thereof.

15. (Original) A composition according to Claim 14, wherein said double bases of formula (III) are chosen from N,N'-bis( $\beta$ -hydroxyethyl)-N,N'-bis(4'-aminophenyl)-1,3-diaminopropanol, 1,8-bis(2,5-diaminophenoxy)-3,5-dioxaoctane, and acid addition salts thereof.

16. (Original) A composition according to Claim 7, wherein said para-aminophenols are chosen from the compounds of formula (IV) and acid addition salts thereof:



wherein:

R<sub>16</sub> is chosen from a hydrogen atom, a halogen atom, a (C<sub>1</sub>-C<sub>4</sub>)alkyl group, a (C<sub>1</sub>-C<sub>4</sub>)monohydroxyalkyl group, a (C<sub>1</sub>-C<sub>4</sub>)alkoxy(C<sub>1</sub>-C<sub>4</sub>)alkyl group, a (C<sub>1</sub>-C<sub>4</sub>)aminoalkyl group and a hydroxy(C<sub>1</sub>-C<sub>4</sub>)alkylamino(C<sub>1</sub>-C<sub>4</sub>)alkyl group,

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Washington, DC 20005  
202.408.4000  
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R<sub>17</sub> is chosen from a hydrogen atom, a halogen atom, a (C<sub>1</sub>-C<sub>4</sub>)alkyl group, (C<sub>1</sub>-C<sub>4</sub>)monohydroxyalkyl group, (C<sub>2</sub>-C<sub>4</sub>)polyhydroxyalkyl group, (C<sub>1</sub>-C<sub>4</sub>)aminoalkyl group, (C<sub>1</sub>-C<sub>4</sub>)cyanoalkyl group and a (C<sub>1</sub>-C<sub>4</sub>)alkoxy-(C<sub>1</sub>-C<sub>4</sub>)alkyl group, provided that: at least one of R<sub>16</sub> and R<sub>17</sub> is a hydrogen atom.

17. (Original) A composition according to claim 16, wherein said para-aminophenols are chosen from para-aminophenol, 4-amino-3-methylphenol, 4-amino-3-fluorophenol, 4-amino-3-hydroxymethylphenol, 4-amino-2-methylphenol, 4-amino-2-hydroxymethylphenol, 4-amino-2-methoxymethylphenol, 4-amino-2-aminomethylphenol, 4-amino-2-(β-hydroxyethylaminomethyl)phenol, 4-amino-2-fluorophenol, and acid addition salts thereof.

18. (Original) A composition according to claim 7, wherein said ortho-aminophenols are chosen from 2-aminophenol, 2-amino-5-methylphenol, 2-amino-6-methylphenol and 5-acetamido-2-aminophenol, and acid addition salts thereof.

19. (Original) A composition according to claim 7, wherein said heterocyclic oxidation bases are chosen from pyridine derivatives, pyrimidine derivatives, pyrazolopyrimidine derivatives, pyrazole derivatives and acid addition salts thereof.

20. (Original) A composition according to claim 19, wherein said pyridine derivatives are chosen from 2,5-diaminopyridine, 2-(4-methoxyphenyl)amino-3-aminopyridine, 2,3-diamino-6-methoxypyridine, 2-(β-methoxyethyl)amino-3-amino-6-methoxypyridine 3,4-diaminopyridine, and acid addition salts thereof.

21. (Original) A composition according to claim 19, wherein said pyrimidine derivatives are chosen from 2,4,5,6-tetraamino-pyrimidine, 4-hydroxy-2,5,6-



triaminopyrimidine, 2-hydroxy-4,5,6-triaminopyrimidine, 2,4-dihydroxy-5,6-diaminopyrimidine, 2,5,6-triaminopyrimidine and acid addition salts thereof.

22. (Original) A composition according to claim 19, wherein said pyrazolopyrimidine derivatives are chosen from pyrazolo[1,5-a]pyrimidine-3,7-diamine, 2,5-dimethylpyrazolo[1,5-a]pyrimidine-3,7-diamine, pyrazolo[1,5-a]pyrimidine-3,5-diamine, 2,7-dimethylpyrazolo[1,5-a]pyrimidine-3,5-diamine, 3-aminopyrazolo[1,5-a]pyrimidin-7-ol, 3-aminopyrazolo[1,5-a]pyrimidin-5-ol, 2-(3-aminopyrazolo[1,5-a]pyrimidin-7-ylamino)ethanol, 2-(7-aminopyrazolo[1,5-a]pyrimidin-3-ylamino)ethanol, 2-[(3-aminopyrazolo[1,5-a]pyrimidin-7-yl)-(2-hydroxyethyl)amino]ethanol, 2-[(7-aminopyrazolo[1,5-a]pyrimidin-3-yl)-(2-hydroxyethyl)amino]ethanol, 5,6-dimethylpyrazolo[1,5-a]pyrimidine-3,7-diamine, 2,6-dimethylpyrazolo[1,5-a]pyrimidine-3,7-diamine, 2,5,N7,N7-tetramethylpyrazolo[1,5-a]pyrimidine-3,7-diamine and 3-amino-5-methyl-7-imidazolylpropylaminopyrazolo[1,5-a]pyrimidine, a corresponding tautomeric form thereof, when a tautomeric equilibrium exists, and acid addition salts thereof.

23. (Original) A composition according to claim 19, wherein said pyrazole derivatives are chosen from 4,5-diamino-1-methylpyrazole, 3,4-diaminopyrazole, 4,5-diamino-1-(4'-chlorobenzyl)pyrazole, 4,5-diamino-1,3-dimethylpyrazole, 4,5-diamino-3-methyl-1-phenylpyrazole, 4,5-diamino-1-methyl-3-phenylpyrazole, 4-amino-1,3-dimethyl-5-hydrazinopyrazole, 1-benzyl-4,5-diamino-3-methylpyrazole, 4,5-diamino-3-tert-butyl-1-methylpyrazole, 4,5-diamino-1-tert-butyl-3-methylpyrazole, 4,5-diamino-1-( $\beta$ -hydroxyethyl)-3-methylpyrazole, 4,5-diamino-1-ethyl-3-methylpyrazole, 4,5-diamino-1-ethyl-3-(4'-methoxyphenyl)pyrazole, 4,5-diamino-1-ethyl-3-hydroxymethyl pyrazole, 4,5-diamino-3-hydroxymethyl-1-methylpyrazole, 4,5-diamino-3-hydroxymethyl-1-

isopropylpyrazole, 4,5-diamino-3-methyl-1-isopropylpyrazole, 4-amino-5-(2'-aminoethyl)amino-1,3-dimethylpyrazole, 3,4,5-triaminopyrazole, 1-methyl-3,4,5-triaminopyrazole, 3,5-diamino-1-methyl-4-methylaminopyrazole, 3,5-diamino-4-( $\beta$ -hydroxyethyl)amino-1-methylpyrazole, and acid addition salts thereof.

24. (Original) A composition according to claim 6, wherein said at least one oxidation base is present in an amount ranging from 0.0005 to 12% by weight relative to the total weight of the ready-to-use dye composition.

25. (Original) A composition according to claim 24, wherein said at least one oxidation base is present in an amount ranging from 0.005 to 8% by weight relative to the total weight of the ready-to-use dye composition.

26. (Original) A composition according to claim 1, wherein said at least one 2-electron oxidoreductase is chosen from pyranose oxidases, glucose oxidases, glycerol oxidases, lactate oxidases, pyruvate oxidases, uricases, choline oxidases, sarcosine oxidases and bilirubin oxidases.

27. (Original) A composition according to claim 26, wherein said at least one 2-electron oxidoreductase is chosen from uricases of animal, uricases of microbiological and uricases of biotechnological origin.

28. (Original) A composition according to claim 27, wherein said at least one 2-electron oxidoreductase is chosen from uricases extracted from boar's liver, *Arthrobacter globiformis* and *Aspergillus flavus*.

29. (Original) A composition according to claim 1, wherein said at least one 2-electron oxidoreductase is present in an amount ranging from 0.01 to 20% by weight relative to the total weight of the ready-to-use dye composition.

30. (Original) A composition according to claim 29, wherein said at least one 2-electron oxidoreductase is present in an amount ranging from 0.1 to 10% by weight relative to the total weight of the ready-to-use dye composition.
31. (Original) A composition according to claim 30, wherein said at least one 2-electron oxidoreductase is present in an amount ranging from 0.1 to 5% by weight relative to the total weight of the ready-to-use dye composition.
32. (Original) A composition according to claim 1, wherein said at least one 2-electron oxidoreductase is present in an amount ranging from 10 to  $10^8$  units U per 100 g of ready-to-use dye composition.
33. (Original) A composition according to claim 1, wherein said at least one donor is present in an amount ranging from 0.01 to 20% by weight relative to the total weight of the ready-to-use dye composition.
34. (Original) A composition according to claim 33, wherein said at least one donor is present in an amount ranging from 0.1 to 5% by weight relative to the total weight of the ready-to-use dye composition.
35. (Original) A composition according to claim 1, wherein said at least one 4-electron oxidoreductase is chosen from at least one laccase, at least one tyrosinase, at least one catechol oxidase and at least one polyphenol oxidase.
36. (Original) A composition according to claim 35, wherein said at least one 4-electron oxidoreductase is chosen from at least one laccase.
37. (Original) A composition according to claim 36, wherein said at least one laccase is chosen from laccases of plant origin, laccases of animal origin, laccases of fungal origin and laccases of bacterial origin.

38. (Original) A composition according to claim 36, wherein said at least one laccase is chosen from laccases obtained by biotechnological techniques.

39. (Original) A composition according to claim 37, wherein said at least one laccase of plant origin is chosen from: Anacardiaceae chosen from *Magnifera indica*, *Schinus molle* and *Pleiogynium timoriense*; Podocarpaceae; *Rosmarinus* off.; *Solanum tuberosum*; *Iris* sp.; *Coffea* sp.; *Daucus carota*; *Vinca minor*; and *Persea americana*; *Catharanthus roseus*; *Musa* sp.; *Malus pumila*; *Ginkgo biloba*; *Monotropa hypopithys* (Indian pipe), *Aesculus* sp.; *Acer pseudoplatanus*; *Prunus persica* and *Pistacia palaestina*.

40. (Original) A composition according to claim 37, wherein said at least one laccase of fungal origin is chosen from *Polyporus versicolor*, *Rhizoctonia praticola*, *Rhus vernicifera*, *Scytalidium*, *Polyporus pinsitus*, *Myceliophthora thermophila*, *Rhizoctonia solani*, *Pyricularia orizae*, *Trametes versicolor*, *Fomes fomentarius*, *Chaetomium thermophile*, *Neurospora crassa*, *Colorius versicol*, *Botrytis cinerea*, *Rigidoporus lignosus*, *Phellinus noxius*, *Pleurotus ostreatus*, *Aspergillus nidulans*, *Podospora anserina*, *Agaricus bisporus*, *Ganoderma lucidum*, *Glomerella cingulata*, *Lactarius piperatus*, *Russula delica*, *Heterobasidion annosum*, *Thelephora terrestris*, *Cladosporium cladosporioides*, *Cerrena unicolor*, *Coriolus hirsutus*, *Ceriporiopsis subvermispora*, *Coprinus cinereus*, *Panaeolus papilionaceus*, *Panaeolus sphinctrinus*, *Schizophyllum commune*, *Dichomitius squalens*, and variants thereof.

41. (Original) A composition according to claim 37, wherein said at least one laccase of fungal origin is obtained by biotechnological techniques.

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1300 I Street, NW  
Washington, DC 20005  
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42. (Previously amended) A composition according to claim 36, wherein said at least one laccase is present in an amount ranging from 0.5 to 2000 Lacu per 100 g of ready-to-use dye composition.

43. (Original) A composition according to claim 1, wherein said at least one 4-electron oxidoreductase is present in an amount ranging from 0.01 to 20% by weight relative to the total weight of the ready-to-use dye composition.

44. (Original) A composition according to claim 43, wherein said at least one 4-electron oxidoreductase is present in an amount ranging from 0.1 to 5% by weight relative to the total weight of the ready-to-use dye composition.

45. (Previously amended) A composition according to claim 1, wherein said at least one peroxidase is chosen from NADH peroxidases having NADH as donor, fatty acid peroxidases having a fatty acid as a donor, NADPH peroxidases having NADPH as donor, cytochrome-c peroxidases having ferrocytochrome c as donor, iodide peroxidases having iodides as donor, chloride peroxidases having chlorides as donor, L-ascorbate peroxidases having L-ascorbate as donor and glutathione peroxidases having glutathione as donor, catalases and peroxidases.

46. (Cancelled)

47. (Currently amended) A composition according to claim 46 ~~45~~, wherein said ~~simplex~~ peroxidases are present in an amount ranging from 0.1 to  $5 \times 10^6$  units per 100 g of the ready-to-use dye composition.

48. (Original) A composition according to claim 1, wherein said at least one peroxidase is chosen from peroxidases of plant origin, peroxidases of animal origin, peroxidases of fungal origin and peroxidases of bacterial origin.

49. (Original) A composition according to claim 1, wherein said at least one peroxidase is chosen from peroxidases obtained by biotechnological techniques.
50. (Original) A composition according to claim 1, wherein said at least one peroxidase is present in an amount ranging from 0.0001 to 20% by weight relative to the total weight of the ready-to-use dye composition.
51. (Original) A composition according to claim 1, wherein said at least one peroxidase is present in an amount ranging from 0.001 to 10% by weight relative to the total weight of the ready-to-use dye composition.
52. (Original) A composition according to claim 1, further comprising at least one coupler chosen from meta-phenylenediamines, meta-aminophenols, meta-diphenols, naphthols, heterocyclic couplers chosen from pyrazolo[1,5-b]-1,2,4-triazoles, pyrazolo[3,2-c]-1,2,4-triazoles, and pyrazol-5-ones, pyridines other than the pyridines of formula (I) chosen from indoles, indolines, indazoles, benzimidazoles, benzothiazoles, benzoxazoles, 1,3-benzodioxoles and quinolines.
53. (Original) A composition according to claim 52, wherein said at least one coupler is chosen from 2-methyl-5-aminophenol, 5-N-( $\beta$ -hydroxyethyl)amino-2-methylphenol, 3-aminophenol, 1,3-dihydroxybenzene, 1,3-dihydroxy-2-methylbenzene, 4-chloro-1,3-dihydroxybenzene, 2,4-diamino-1-( $\beta$ -hydroxyethyloxy)benzene, 2-amino-4-( $\beta$ -hydroxyethylamino)-1-methoxybenzene, 1,3-diaminobenzene, 1,3-bis(2,4-diaminophenoxy)propane, sesamol,  $\alpha$ -naphthol, 2-methyl-1-naphthol, 6-hydroxyindole, 4-hydroxyindole, 4-hydroxy-N-methylindole, 6-hydroxyindoline, 2,6-dihydroxy-4-methylpyridine, 1-H-3-methylpyrazol-5-one, 1-phenyl-3-methylpyrazol-5-one, 2-amino-3-

hydroxypyridine, 3,6-dimethylpyrazolo[3,2-c]-1,2,4-triazole 2,6-dimethylpyrazolo[1,5-b]-1,2,4-triazole, and acid addition salts thereof.

54. (Original) A composition according to claim 52, wherein said at least one coupler is present in an amount ranging from 0.0001 to 10% by weight relative to the total weight of the ready-to-use dye composition.

55. (Original) A composition according to claim 54, wherein said at least one coupler is present in an amount ranging from 0.005 to 5% by weight relative to the total weight of the ready-to-use dye composition.

56. (Original) A composition according to claim 1 further comprising at least one direct dye.

57. (Original) A composition according to claim 1, wherein said acid addition salts are chosen from hydrochlorides, hydrobromides, sulphates, tartrates, lactates and acetates.

58. (Original) A composition according to claim 1, wherein said medium suitable for dyeing, is chosen from media comprising water; and media comprising at least one organic solvent.

59. (Original) A composition according to claim 58, wherein said at least one organic solvent is chosen from C<sub>1</sub>-C<sub>4</sub> alkanols; glycerol; glycols and glycol ethers; and aromatic alcohols.

60. (Original) A composition according to claim 59, wherein said C<sub>1</sub>-C<sub>4</sub> alkanols are chosen from ethanol and isopropanol.

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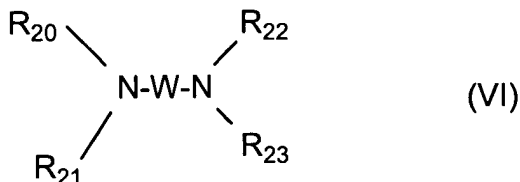
1300 I Street, NW  
Washington, DC 20005  
202.408.4000  
Fax 202.408.4400  
www.finnegan.com

61. (Original) A composition according to claim 59, wherein said glycols and glycol ethers are chosen from 2-butoxyethanol, propylene glycol, propylene glycol monomethyl ether, diethylene glycol monoethyl ether and monomethyl ether.
62. (Original) A composition according to claim 59, wherein said aromatic alcohols are chosen from benzyl alcohol and phenoxyethanol.
63. (Original) A composition according to claim 58, wherein said at least one organic solvent is present in an amount ranging from 1 to 40% by weight relative to the total weight of the ready-to-use dye composition.
64. (Original) A composition according to claim 63, wherein said at least one organic solvent is present in an amount ranging from 5 to 30% by weight relative to the total weight of the ready-to-use dye composition.
65. (Original) A composition according to claim 1, wherein said composition has a pH ranging from 5 to 11.
66. (Original) A composition according to claim 65, wherein said composition has a pH ranging from 6.5 to 10.
67. (Original) A composition according to claim 65, further comprising at least one agent for adjusting pH chosen from acidifying and alkalinizing agents.
68. (Original) A composition according to claim 67, wherein said acidifying agents are chosen from inorganic and organic acids.
69. (Original) A composition according to claim 68, wherein said inorganic and organic acids are chosen from hydrochloric, orthophosphoric, sulfuric, and carboxylic acids.



70. (Original) A composition according to claim 69, wherein said carboxylic acids are chosen from acetic, tartaric, citric, lactic and sulfonic acids.

71. (Original) A composition according to claim 67, wherein said alkalinizing agents chosen from aqueous ammonia, alkali metal carbonates, alkanolamines, sodium hydroxides, potassium hydroxides and the compounds of formula (VI) below:



wherein:

W is a propylene residue, optionally substituted with a group chosen from a hydroxyl group and a (C<sub>1</sub>-C<sub>4</sub>) alkyl group, R<sub>20</sub>, R<sub>21</sub>, R<sub>22</sub> and R<sub>23</sub>, which are identical or different, are each chosen from a hydrogen atom, and a (C<sub>1</sub>-C<sub>4</sub>)alkyl and (C<sub>1</sub>-C<sub>4</sub>)hydroxyalkyl groups.

72. (Original) A composition according to claim 71, wherein said alkanolamines are chosen from mono-, di- and triethanolamine, 2-methyl-2-aminopropanol and derivatives thereof.

73. (Original) A composition according to claim 1, further comprising at least one adjuvant used in hair dyeing compositions.

74. (Original) A composition according to claim 73, wherein said at least one adjuvant is chosen from anionic, cationic, nonionic, amphoteric and zwitterionic surfactants; anionic, cationic, nonionic, amphoteric and zwitterionic polymers; inorganic and organic thickeners; antioxidants; penetration agents; sequestering agents; fragrances; buffers; dispersing agents; and conditioning agents.

75. (Original) A composition according to claim 74 wherein said conditioning agents are chosen from modified and unmodified, non-volatile and volatile silicones, film-forming agents, ceramides, preserving agents and opacifying agents.

76. (Original) A composition according to claim 1, wherein said composition is a liquid, a cream a gel, or any form suitable for dyeing keratinous fibers.

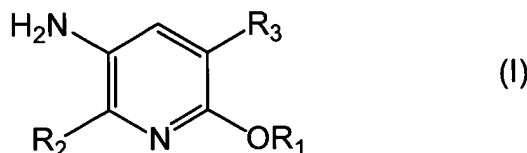
77. (Original) A composition according to claim 76, wherein said keratinous fibers are human hair.

78. (Original) A composition according to claim 1, wherein said composition is free of gaseous oxygen.

79. (Currently amended) A process for oxidation dyeing keratinous fibers comprising:

(1) applying to said fibers at least one ready-to-use dyeing composition comprising, in a medium suitable for dyeing:

(a) at least one oxidation dye chosen from the pyridines of formula (I), and acid addition salts thereof:



wherein:

R<sub>1</sub> is chosen from a (C<sub>1</sub>-C<sub>4</sub>)alkyl group, a (C<sub>1</sub>-C<sub>4</sub>)monohydroxyalkyl group, and a (C<sub>2</sub>-C<sub>4</sub>)polyhydroxyalkyl group,

R<sub>2</sub> is chosen from a (C<sub>1</sub>-C<sub>4</sub>)alkoxy group, a (C<sub>1</sub>-C<sub>4</sub>)monohydroxyalkoxy group, a (C<sub>2</sub>-C<sub>4</sub>)polyhydroxyalkoxy group, an amino group, a mono(C<sub>1</sub>-

C<sub>4</sub>)alkylamino group, a di-(C<sub>1</sub>-C<sub>4</sub>)alkylamino group, a monophenylamino group, a monohydroxyphenylamino group, a monoalkoxyphenylamino group, a monohydroxy(C<sub>1</sub>-C<sub>4</sub>)alkylamino group, a dihydroxy-(C<sub>1</sub>-C<sub>4</sub>)alkylamino group, a monohydroxy- (C<sub>2</sub>-C<sub>4</sub>)alkylamino group, a dihydroxy- (C<sub>2</sub>-C<sub>4</sub>)alkylamino group, a (C<sub>1</sub>-C<sub>4</sub>)alkylmonohydroxy- (C<sub>1</sub>-C<sub>4</sub>)alkylamino group and a (C<sub>1</sub>-C<sub>4</sub>)alkyl- polyhydroxy(C<sub>2</sub>-C<sub>4</sub>)alkylamino group,

R<sub>3</sub> is chosen from a hydrogen atom, an amino group, a Mono(C<sub>1</sub>-C<sub>4</sub>)alkylamino group, a monohydroxy(C<sub>1</sub>-C<sub>4</sub>)alkylamino group and a mono(polyhydroxy(C<sub>2</sub>-C<sub>4</sub>)alkyl)amino group;

provided that: when R<sub>2</sub> is chosen from a (C<sub>1</sub>-C<sub>4</sub>)alkoxy group, a

(C<sub>1</sub>-C<sub>4</sub>)monohydroxyalkoxy group and a (C<sub>2</sub>-C<sub>4</sub>)polyhydroxyalkoxy group,

then R<sub>3</sub> is a hydrogen atom; and

further provided that the at least one oxidation dye can be 2,6-dimethoxy-3,5-diaminopyridine; and

(b) at least one enzymatic oxidizing agent chosen from:

(i) a system comprising at least one 2-electron oxidoreductase and its

corresponding at least one donor,

(ii) at least one 4-electron oxidoreductase, and

(iii) at least one peroxides;

(2) developing a color; and

(3) rinsing said keratinous fibers.

80. (Original) A process for oxidation dyeing keratinous fibers according to claim 79, further comprising:

washing said keratinous fibers with shampoo;

rinsing said keratinous fibers; and

drying said keratinous fibers.

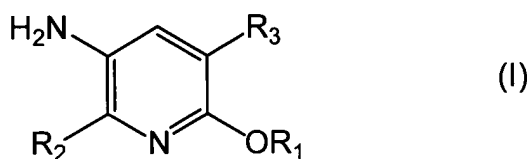
81. (Original) A process for oxidation dyeing keratinous fibers according to claim 79, wherein the time for developing a color ranges from 3 to 60 minutes.

82. (Original) A process for oxidation dyeing keratinous fibers according to claim 81, wherein the time for developing a color ranges from 5 to 40 minutes.

83. (Currently amended) A process for oxidation dyeing keratinous fibers comprising:

(1) storing a composition (A) comprising, in a medium suitable for dyeing:

at least one oxidation dye chosen from the pyridines of formula (I), and acid addition salts thereof:



wherein:

R<sub>1</sub> is chosen from a (C<sub>1</sub>-C<sub>4</sub>)alkyl group, a (C<sub>1</sub>-C<sub>4</sub>)monohydroxyalkyl group, and a (C<sub>2</sub>-C<sub>4</sub>)polyhydroxyalkyl group,

R<sub>2</sub> is chosen from a (C<sub>1</sub>-C<sub>4</sub>)alkoxy group, a (C<sub>1</sub>-C<sub>4</sub>)monohydroxyalkoxy group, a (C<sub>2</sub>-C<sub>4</sub>)polyhydroxyalkoxy group, an amino group, a mono(C<sub>1</sub>-C<sub>4</sub>)alkylamino

group, a di-(C<sub>1</sub>-C<sub>4</sub>)alkylamino group, a monophenylamino group, a monohydroxyphenylamino group, a monoalkoxyphenylamino group, a monohydroxy(C<sub>1</sub>-C<sub>4</sub>)alkylamino group, a dihydroxy-(C<sub>1</sub>-C<sub>4</sub>)alkylamino group, a monohydroxy- (C<sub>2</sub>-C<sub>4</sub>)alkylamino group, a dihydroxy- (C<sub>2</sub>-C<sub>4</sub>)alkylamino group, a (C<sub>1</sub>-C<sub>4</sub>)alkylmonohydroxy- (C<sub>1</sub>-C<sub>4</sub>)alkylamino group and a (C<sub>1</sub>-C<sub>4</sub>)alkyl- polyhydroxy(C<sub>2</sub>-C<sub>4</sub>)alkylamino group,

R<sub>3</sub> is chosen from a hydrogen atom, an amino group, a mono(C<sub>1</sub>-C<sub>4</sub>)alkylamino group, a monohydroxy(C<sub>1</sub>-C<sub>4</sub>)alkylamino group and a mono(polyhydroxy(C<sub>2</sub>-C<sub>4</sub>)alkyl)amino group;

provided that: when R<sub>2</sub> is chosen from a (C<sub>1</sub>-C<sub>4</sub>)alkoxy group, a (C<sub>1</sub>-C<sub>4</sub>)monohydroxyalkoxy group and a (C<sub>2</sub>-C<sub>4</sub>)polyhydroxyalkoxy group, then

R<sub>3</sub> is a hydrogen atom; and

further provided that the at least one oxidation dye can be 2,6-dimethoxy-3,5-diaminopyridine;

(2) storing, separately from said composition (A), a composition (B) comprising, in a medium suitable for dyeing:

at least one enzymatic oxidizing agent chosen from:

(i) a system comprising at least one 2-electron

oxidoreductase and its corresponding at least one donor,

(ii) at least one 4-electron oxidoreductase, and

(iii) at least one peroxidase;

(3) mixing said composition (A) and said composition (B)

84. (Original) A process for oxidation dyeing keratinous fibers according to claim 83, wherein the time for developing a color ranges from 3 to 60 minutes.

85. (Original) A process for oxidation dyeing keratinous fibers according to claim 83, wherein the time for developing a color ranges from 3 to 60 minutes.

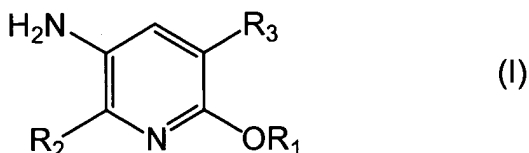
86. (Original) A process for oxidation dyeing keratinous fibers according to claim 85, wherein the time for developing a color ranges from 5 to 40 minutes.

87. (Original) A kit comprising two compartments, wherein:

(1) a first compartment comprises in a medium suitable for dyeing keratinous fibers:

at least one oxidation dye chosen from the pyridines of formula (I), and acid addition

salts thereof:



wherein:

R<sub>1</sub> is chosen from a (C<sub>1</sub>-C<sub>4</sub>)alkyl group, a (C<sub>1</sub>-C<sub>4</sub>)monohydroxyalkyl group, and a (C<sub>2</sub>-C<sub>4</sub>)polyhydroxyalkyl group,

R<sub>2</sub> is chosen from a (C<sub>1</sub>-C<sub>4</sub>)alkoxy group, a (C<sub>1</sub>-C<sub>4</sub>)monohydroxyalkoxy group, a (C<sub>2</sub>-C<sub>4</sub>)polyhydroxyalkoxy group, an amino group, a mono(C<sub>1</sub>-

C<sub>4</sub>)alkylamino group, a di-(C<sub>1</sub>-C<sub>4</sub>)alkylamino group, a monophenylamino group, a monohydroxyphenylamino group, a monoalkoxyphenylamino group, a

monohydroxy(C<sub>1</sub>-C<sub>4</sub>)alkylamino group, a dihydroxy-(C<sub>1</sub>-C<sub>4</sub>)alkylamino group, a monohydroxy(C<sub>2</sub>-C<sub>4</sub>)alkylamino group, a dihydroxy- (C<sub>2</sub>-C<sub>4</sub>)alkylamino group, a (C<sub>1</sub>-C<sub>4</sub>)alkylmonohydroxy- (C<sub>1</sub>-C<sub>4</sub>)alkylamino group and a (C<sub>1</sub>-C<sub>4</sub>)alkyl- polyhydroxy(C<sub>2</sub>-C<sub>4</sub>)alkylamino group,

R<sub>3</sub> is chosen from a hydrogen atom, an amino group, a mono(C<sub>1</sub>-C<sub>4</sub>)alkylamino group, a monohydroxy(C<sub>1</sub>-C<sub>4</sub>)alkylamino group and a mono(polyhydroxy(C<sub>2</sub>-C<sub>4</sub>)alkyl)amino group;

provided that: when R<sub>2</sub> is chosen from a (C<sub>1</sub>-C<sub>4</sub>)alkoxy group, a (C<sub>1</sub>-C<sub>4</sub>)monohydroxyalkoxy group and a (C<sub>2</sub>-C<sub>4</sub>)polyhydroxyalkoxy group,

then R<sub>3</sub> is a hydrogen atom; and

further provided that the at least one oxidation dye can be 2,6-dimethoxy-3,5-diaminopyridine;

and

(2) a second compartment comprises in a medium suitable for dyeing, a composition (B) comprising:

at least one enzymatic oxidizing agent chosen from:

- (i) a system comprising at least one 2-electron oxidoreductase and its corresponding at least one donor,
- (ii) at least one 4-electron oxidoreductase, and
- (iii) at least one peroxidase.